

AMENDMENTS TO THE CLAIMS

This listing of claims supersedes all prior versions and listings of claims in this application:

LISTING OF CLAIMS:

1. (Currently Amended) A random access control method for a CDMA system comprising a base station and a plurality of terminals, which comprises the steps of:

receiving at said base station preamble signals from said plurality of terminals;

transmitting to said plurality of terminals signals for allowing random access or signals for rejecting said random access; ~~and~~

storing propagation delay times for terminals, which received said signals for rejecting said random access; and

assessing priority based, in part, on said stored propagation delay times.

2. (Previously Presented) The random access control method according to claim 1, wherein

transmission data in a message part is transmitted by each of terminals, which received said signals for allowing said random access; and said transmission data is received by said base station.

3. (Previously Presented) The random access control method according to claim 1, wherein

said base station gives a priority to such a terminal that a present propagation delay time of said terminal is substantially equal to one of the stored propagation delay times.

4. (Previously Presented) The random access control method according to claim 1, wherein

said base station:

gives a priority to one of said plurality of terminals on the basis of an electric power, a E_b/N_0 ratio, or a data error rate in addition with said propagation delay time; and

stores said electric power, said E_b/N_0 ratio, or said data error rate in addition with said propagation delay times for said terminals, which received said signals for rejecting said random access.

5. (Currently Amended) A base station apparatus for controlling a plurality of terminals in a random access CDMA system, which comprises:

a receiving unit for receiving preamble signals and transmission data from terminals to which random access is allowed;

a correlation unit for calculating correlations between an output from said receiving unit and a plurality of prescribed preamble signals;

a preamble signal determination unit for determining whether the base station transmits a signal for allowing said random access or a signal for rejecting said random access on the basis of said correlations and a propagation delay time of a preamble signal, and storing a delay time of preamble only when a signal for rejecting random access is transmitted; and

a code generation unit for generating and transmitting said signal for allowing said random access or said signal for rejecting said random access.

6. (Previously Presented) A base station apparatus according to Claim 5, which further comprises a delay memory unit for storing propagation delay times of terminals which received said signals for rejecting said random access.

7. (Previously Presented) A base station apparatus for controlling a plurality of terminals in a random access CDMA system, according to Claim 5, wherein

said base station:

transmits to one of said plurality of terminals said signal for allowing said random access;

stores propagation delay times of said terminals, which received said signal for rejecting said random access; and

gives a priority to a terminal, which received said signal for rejecting said random access, and its propagation delay time is substantially equal to one of the stored propagation delay times.

Please add the following new claims 8-12:

8. (New) A random access control method for a CDMA system comprising a base station and a plurality of terminals, which comprises the steps of:

receiving at said base station preamble signals from said plurality of terminals;

transmitting to said plurality of terminals signals for allowing random access or signals for rejecting said random access;

storing propagation delay times for terminals, which received said signals for rejecting said random access; and

wherein said base station gives a priority to such a terminal that a present propagation delay time of said terminal is substantially equal to one of the stored propagation delay times.

9. (New) A random access control method for a CDMA system comprising a base station and a plurality of terminals, which comprises the steps of:

receiving at said base station preamble signals from said plurality of terminals;

transmitting to said plurality of terminals signals for allowing random access or signals for rejecting said random access;

storing propagation delay times for terminals, which received said signals for rejecting said random access; and

wherein said base station gives a priority to one of said plurality of terminals on the basis of an electric power, a E_b/N_0 ratio, or a data error rate in addition with said propagation delay

time, and stores said electric power, said E_b/N_0 ratio, or said data error rate in addition with said propagation delay times for said terminals, which received said signals for rejecting said random access.

10. (New) The random access control method according to Claim 8, wherein transmission data in a message part is transmitted by each of terminals, which received said signals for allowing said random access; and said transmission data is received by said base station.

11. (New) A base station apparatus for controlling a plurality of terminals in a random access CDMA system, which comprises:

a receiving unit for receiving preamble signals and transmission data from terminals to which random access is allowed;

a correlation unit for calculating correlations between an output from said receiving unit and a plurality of prescribed preamble signals;

a preamble signal determination unit for determining whether the base station transmits a signal for allowing said random access or a signal for rejecting said random access on the basis of said correlations and a propagation delay time of a preamble signal;

a code generation unit for generating and transmitting said signal for allowing said random access or said signal for rejecting said random access; and

wherein said base station transmits to one of said plurality of terminals said signal for allowing said random access, stores propagation delay times of said terminals, which received said signal for rejecting said random access; and gives a priority to a terminal, which received said signal for rejecting said random access, and its propagation delay time is substantially equal to one of the stored propagation delay times.

12. (New) A base station apparatus according to Claim 11, which further comprises a delay memory unit for storing propagation delay times of terminals which received said signals for rejecting said random access.